Validated By CRFValidator v 1.0.3

Application No: 10596024   Version No: 2.0

Input Set:

Output Set:

Started: 2009-12-29 16:23:06.670
Finished: 2009-12-29 16:23:09.284
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 614 ms
Total Warnings: 25
Total Errors: 0
No. of SeqIDs Defined: 35
Actual SeqID Count: 35

Error code   Error Description

W   213   Artificial or Unknown found in <213> in SEQ ID (1)

W   213   Artificial or Unknown found in <213> in SEQ ID (2)

W   213   Artificial or Unknown found in <213> in SEQ ID (3)

W   213   Artificial or Unknown found in <213> in SEQ ID (4)

W   213   Artificial or Unknown found in <213> in SEQ ID (5)

W   213   Artificial or Unknown found in <213> in SEQ ID (6)

W   213   Artificial or Unknown found in <213> in SEQ ID (7)

W   213   Artificial or Unknown found in <213> in SEQ ID (8)

W   213   Artificial or Unknown found in <213> in SEQ ID (9)

W   213   Artificial or Unknown found in <213> in SEQ ID (10)

W   213   Artificial or Unknown found in <213> in SEQ ID (11)

W   213   Artificial or Unknown found in <213> in SEQ ID (12)

W   213   Artificial or Unknown found in <213> in SEQ ID (13)

W   213   Artificial or Unknown found in <213> in SEQ ID (14)

W   213   Artificial or Unknown found in <213> in SEQ ID (15)

W   213   Artificial or Unknown found in <213> in SEQ ID (16)

W   213   Artificial or Unknown found in <213> in SEQ ID (17)

W   213   Artificial or Unknown found in <213> in SEQ ID (18)

W   213   Artificial or Unknown found in <213> in SEQ ID (19)

W   213   Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started:	2009-12-29 16:23:06.670
Finished:	2009-12-29 16:23:09.284
Elapsed:	0 hr(s) 0 min(s) 2 sec(s) 614 ms
Total Warnings:	25
Total Errors:	0
No. of SeqIDs Defined:	35
Actual SeqID Count:	35

Error code	Error Description
	This error has occured more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (26)
W 402	Undefined organism found in <213> in SEQ ID (27)

<210>   1
<211>   18
<212>   DNA
<213>   Artificial

<220>
<223>   F1 Forward Primer

<400>   1
tctwggwggm atgggttg   18

<210>   2
<211>   6
<212>   PRT
<213>   Artificial

<220>
<223>   Coded by F1 Forward Primer

<400>   2

Leu Gly Gly Met Gly Cys
1   5

<210>   3
<211>   18
<212>   DNA
<213>   Artificial

<220>
<223>   R1 Reverse Primer

<400>   3
tdtaygcyar ctcrtacc   18

<210> 4
<211> 6
<212> PRT
<213> Artificial

<220>
<223> Coded by R1 Reverse Primer

<400> 4

Trp Tyr Glu Leu Ala Tyr
1   5

<210> 5
<211> 20
<212> DNA
<213> Artificial

<220>
<223> P Forward Primer

<400> 5
accatgtcag gaacaaaagc   20

<210> 6
<211> 23
<212> DNA
<213> Artificial

<220>
<223> PR Reverse Primer

<400> 6
ttaatttaat ggaacctcaa ccg   23

<210> 7
<211> 32
<212> DNA
<213> Artificial

<220>
<223> F2 Forward Primer

<400> 7
tcgaggatgt cgcttcaccg atttggaaac ac   32

<210> 8
<211> 33
<212> DNA
<213> Artificial

<220>

<223> R2 Reverse Primer

<400> 8
gtttccaaat cggtgaagcg acatcctcga tgg   33

<210> 9
<211> 25
<212> DNA
<213> Artificial

<220>
<223> F3 Forward Primer

<400> 9
taggatccat gtcaggaaca aaagc   25

<210> 10
<211> 30
<212> DNA
<213> Artificial

<220>
<223> R3 Reverse Primer

<400> 10
tagagctctt aatttaatgg aacctcaacc   30

<210> 11
<211> 30
<212> DNA
<213> Artificial

<220>
<223> R4 Reverse Primer

<400> 11
taggatcctt aatttaatgg aacctcaacc   30

<210> 12
<211> 17
<212> DNA
<213> Artificial

<220>
<223> F4 Forward Primer

<400> 12
atgtcaggaa caaaagc   17

<210> 13
<211> 22
<212> DNA

<213> Artificial

<220>
<223> R5 Reverse Primer

<400> 13
taatttaatg gaacctcaac cg   22

<210> 14
<211> 24
<212> DNA
<213> Artificial

<220>
<223> F5 Forward Primer

<400> 14
gcaatgacgt ccattaacgt aaag   24

<210> 15
<211> 21
<212> DNA
<213> Artificial

<220>
<223> R6 Reverse Primer

<400> 15
ttaggaccga ccgtttttggg c   21

<210> 16
<211> 29
<212> DNA
<213> Artificial

<220>
<223> F6 Forward Primer

<400> 16
tatctagaat gacgtccatt aacgtaaag   29

<210> 17
<211> 27
<212> DNA
<213> Artificial

<220>
<223> R7 Reverse Primer

<400> 17
atggtacctt aggaccgacc gttttgg   27

<210> 18
<211> 22
<212> DNA
<213> Artificial

<220>
<223> NN-3 Primer

<400> 18
tttcttcgcc acttgtcact cc   22

<210> 19
<211> 21
<212> DNA
<213> Artificial

<220>
<223> NN-4 Primer

<400> 19
cgcgctatat tttgttttct a   21

<210> 20
<211> 32
<212> DNA
<213> Artificial

<220>
<223> OM087 Primer

<400> 20
agagagaggg atccatgagt gtgataggta gg   32

<210> 21
<211> 33
<212> DNA
<213> Artificial

<220>
<223> OM088 Primer

<400> 21
gaggaagaag gatccgggtc tatatactac tct   33

<210> 22
<211> 503
<212> PRT
<213> Tropaeolum majus

<400> 22

Met Ser Gly Thr Lys Ala Thr Ser Val Ser Val Pro Leu Pro Asp Phe
1   5   10   15

Lys Gln Ser Val Asn Leu Lys Tyr Val Lys Leu Gly Tyr His Tyr Ser
        20   25   30

Ile Thr His Ala Met Tyr Leu Phe Leu Thr Pro Leu Leu Leu Ile Met
        35   40   45

Ser Ala Gln Ile Ser Thr Phe Ser Ile Gln Asp Phe His His Leu Tyr
        50   55   60

Asn His Leu Ile Leu His Asn Leu Ser Ser Leu Ile Leu Cys Ile Ala
65   70   75   80

Leu Leu Leu Phe Val Leu Thr Leu Tyr Phe Leu Thr Arg Pro Thr Pro
                85   90   95

Val Tyr Leu Leu Asn Phe Ser Cys Tyr Lys Pro Asp Ala Ile His Lys
                100   105   110

Cys Asp Arg Arg Arg Phe Met Asp Thr Ile Arg Gly Met Gly Thr Tyr
        115   120   125

Thr Glu Glu Asn Ile Glu Phe Gln Arg Lys Val Leu Glu Arg Ser Gly
        130   135   140

Ile Gly Glu Ser Ser Tyr Leu Pro Pro Thr Val Phe Lys Ile Pro Pro
145   150   155   160

Arg Val Tyr Asp Ala Glu Glu Arg Ala Glu Ala Glu Met Leu Met Phe
                165   170   175

Gly Ala Val Asp Gly Leu Phe Glu Lys Ile Ser Val Lys Pro Asn Gln
                180   185   190

Ile Gly Val Leu Val Val Asn Cys Gly Leu Phe Asn Pro Ile Pro Ser
        195   200   205

Leu Ser Ser Met Ile Val Asn Arg Tyr Lys Met Arg Gly Asn Val Phe
        210   215   220

Ser Tyr Asn Leu Gly Gly Met Gly Cys Ser Ala Gly Val Ile Ser Ile
225   230   235   240

```
Asp Leu Ala Lys Asp Leu Leu Gln Val Arg Pro Asn Ser Tyr Ala Leu
              245                 250                 255


Val Val Ser Leu Glu Cys Ile Ser Lys Asn Leu Tyr Leu Gly Glu Gln
              260                 265                 270


Arg Ser Met Leu Val Ser Asn Cys Leu Phe Arg Met Gly Gly Ala Ala
              275                 280                 285


Ile Leu Leu Ser Asn Lys Met Ser Asp Arg Trp Arg Ser Lys Tyr Arg
          290                 295                 300


Leu Val His Thr Val Arg Thr His Lys Gly Thr Glu Asp Asn Cys Phe
305                 310                 315                 320


Ser Cys Val Thr Arg Lys Glu Asp Ser Asp Gly Lys Ile Gly Ile Ser
              325                 330                 335


Leu Ser Lys Asn Leu Met Ala Val Ala Gly Asp Ala Leu Lys Thr Asn
              340                 345                 350


Ile Thr Thr Leu Gly Pro Leu Val Leu Pro Met Ser Glu Gln Leu Leu
          355                 360                 365


Phe Phe Ala Thr Leu Val Gly Lys Lys Val Phe Lys Met Lys Leu Gln
    370                 375                 380


Pro Tyr Ile Pro Asp Phe Lys Leu Ala Phe Glu His Phe Cys Ile His
385                 390                 395                 400


Ala Gly Gly Arg Ala Val Leu Asp Glu Leu Glu Lys Asn Leu Lys Leu
              405                 410                 415


Ser Ser Trp His Met Glu Pro Ser Arg Met Ser Leu Tyr Arg Phe Gly
          420                 425                 430


Asn Thr Ser Ser Ser Ser Leu Trp Tyr Glu Leu Ala Tyr Ser Glu Ala
          435                 440                 445


Lys Gly Arg Ile Lys Lys Gly Asp Arg Val Trp Gln Ile Ala Phe Gly
    450                 455                 460
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Ser Gly Phe Lys Cys Asn Ser Ala Val Trp Lys Ala Leu Arg Asn Val
465   470   475   480

Asn Pro Ala Glu Glu Lys Asn Pro Trp Met Asp Glu Ile His Leu Phe
                    485   490   495

Pro Val Glu Val Pro Leu Asn
            500

<210> 23
<211> 1765
<212> DNA
<213> Tropaeolum majus

<400> 23
agtttttttt gttgagaata accatgtcag gaacaaaagc aacatcagtt tctgttccac   60

tgcctgattt caagcaatca gttaatctaa aatatgttaa acttggttat cattactcga   120

tcactcatgc aatgtatctt tttctaaccc ctcttcttct cataatgtct gctcaaatct   180

caactttctc tattcaagat tttcaccatc tttataacca tcttatcctc cacaatctct   240

catcccttat cctatgcatc gctctcctcc tcttcgtctt aaccctctat ttccttactc   300

gtcccacgcc tgtttatttta ctcaacttct cttgttacaa accggatgct attcacaaat   360

gcgaccgccg tcgtttcatg gacaccattc gtggaatggg tacttatacg gaagagaaca   420

tcgagtttca aaggaaagtt ctagaaaggt ccggaatagg ggaatcgtct tatcttcctc   480

cgactgtgtt taaaattcct cctagggttt acgatgcgga ggaacgcgcg gaggctgaga   540

tgctgatgtt cggtgcggtt gatgggcttt cgagaaaat atctgttaaa ccgaatcaaa   600

tcggggtttt ggttgtgaat tgtgggttgt ttaatccgat accgtcttta tcttccatga   660

ttgtgaatcg ctacaagatg agagggaatg ttttttagtta taatttgggt ggaatgggtt   720

gtagtgcggg tgtgatttcg attgatcttg ctaaagatct tcttcaggtt cgtcccaact   780

catatgcttt ggtggttagt ttggaatgta tctcgaagaa cttgtatctc ggtgaacaaa   840

gatcgatgct tgtttccaac tgtttgtttc gaatgggtgg ggcggcgatt ttgctttcga   900

ataaaatgtc ggatcgatgg agatcaaagt atagattggt tcatacggtt cgaacccaca   960

agggtaccga ggataactgc ttttcttgcg taactagaaa ggaagactcg gacgggaaga   1020

tcggtatttc tttatcgaag aacctaatgg ctgttgccgg agacgcattg aagactaata   1080

tcacaaccct cggaccactt gttctaccca tgtcggaaca attactcttc ttcgctactt   1140

tggtcggaaa aaaggttttc aagatgaagc tacagccgta tataccggat ttcaagttgg   1200

ctttcgagca tttctgtatt catgcaggtg gaagagctgt tctggatgaa ttggagaaga   1260

acttgaagct ttcgagttgg catatggaac catcgaggat gtcgctttac cgatttggaa   1320

acacgtcgag tagttcgctt tggtacgagt tggcttattc ggaggcgaaa gggagaataa   1380

agaagggaga tcgagtatgg caaatcgcgt ttgggtcggg atttaagtgt aacagtgcgg   1440

tgtggaaggc tctaaggaat gttaatccgg cggaagagaa aaatccttgg atggatgaga   1500

ttcacctatt tccggttgag gttccattaa attaaaacct atcttcaagt tacaagttgt   1560

tgttgttgtt tcattaggtt taataataag ctaatatgga aagcctttct actctctttt   1620

ttttccactt ttttttttca atttcagagt tgggtcttag ttgtatcatc tacatgagtg   1680

tattcgctat gcgctattcg ctattcgcta ttcactagtt aataaaatca aacgtccaaa   1740

aaaaaaaaaa aaaaaaaaaa aaaaa   1765

<210>   24
<211>   506
<212>   PRT
<213>   Crambe abyssinica

<400>   24

Met Thr Ser Ile Asn Val Lys Leu Leu Tyr His Tyr Val Ile Thr Asn
1   5   10   15

Leu Phe Asn Leu Cys Phe Phe Pro Leu Thr Ala Ile Val Ala Gly Lys
            20   25   30

Ala Ser Arg Leu Thr Ile Asp Asp Leu His His Leu Tyr Tyr Ser Tyr
        35   40   45

Leu Gln His Asn Val Ile Thr Ile Ala Pro Leu Phe Ala Phe Thr Val
    50   55   60

Phe Gly Ser Ile Leu Tyr Ile Val Thr Arg Pro Lys Pro Val Tyr Leu
65   70   75   80

Val Glu Tyr Ser Cys Tyr Leu Pro Pro Thr Gln Cys Arg Ser Ser Ile
                85   90   95

Ser Lys Val Met Asp Ile Phe Tyr Gln Val Arg Lys Ala Asp Pro Phe
            100   105   110

Arg Asn Gly Thr Cys Asp Asp Ser Ser Trp Leu Asp Phe Leu Arg Lys
        115   120   125

Ile Gln Glu Arg Ser Gly Leu Gly Asp Glu Thr His Gly Pro Glu Gly
    130   135   140

Leu Leu Gln Val Pro Pro Arg Lys Thr Phe Ala Ala Ala Arg Glu Glu
145   150   155   160

Thr Glu Gln Val Ile Val Gly Ala Leu Lys Asn Leu Phe Glu Asn Thr
                165   170   175

Lys Val Asn Pro Lys Asp Ile Gly Ile Leu Val Val Asn Ser Ser Met
                180   185   190

Phe Asn Pro Thr Pro Ser Leu Ser Ala Met Val Val Asn Thr Phe Lys
        195   200   205

Leu Arg Ser Asn Val Arg Ser Phe Asn Leu Gly Gly Met Gly Cys Ser
        210   215   220

Ala Gly Val Ile Ala Ile Asp Leu Ala Lys Asp Leu Leu His Val His
225   230   235   240

Lys Asn Thr Tyr Ala Leu Val Val Ser Thr Glu Asn Ile Thr Tyr Asn
                245   250   255

Ile Tyr Ala Gly Asp Asn Arg Ser Met Met Val Ser Asn Cys Leu Phe
                260   265   270

Arg Val Gly Gly Ala Ala Ile Leu Leu Ser Asn Lys Pro Arg Asp Arg
        275   280   285

Arg Arg Ser Lys Tyr Glu Leu Val His Thr Val Arg Thr His Thr Gly
        290   295   300

Ala Asp Asp Lys Ser Phe Arg Cys Val Gln Gln Gly Asp Asp Glu Asn
305   310   315   320

Gly Lys Thr Gly Val Ser Leu Ser Lys Asp Ile Thr Glu Val Ala Gly
                325   330   335

Arg Thr Val Lys Lys Asn Ile Ala Thr Leu Gly Pro Leu Ile Leu Pro

Leu Ser Glu Lys Leu Leu Phe Phe Val Thr Phe Met Ala Lys Lys Leu
        355   360   365

Phe Lys Asp Lys Val Lys His Tyr Tyr Val Pro Asp Phe Lys Leu Ala
    370   375   380

Ile Asp His Phe Cys Ile His Ala Gly Gly Arg Ala Val Ile Asp Val
385   390   395   400

Leu Glu Lys Asn Leu Gly Leu Ala Pro Ile Asp Val Glu Ala Ser Arg
                405   410   415

Ser Thr Leu His Arg Phe Gly Asn Thr Ser Ser Ser Ser Ile Trp Tyr
        420   425   430

Glu Leu Ala Tyr Ile Glu Ala Lys Gly Arg Met Lys Lys Gly Asn Lys
        435   440   445

Val Trp Gln Ile Ala Leu Gly Ser Gly Phe Lys Cys Asn Ser Ala Val
        450   455   460

Trp Val Ala Leu Ser Asn Val Lys Ala Ser Thr Asn Ser Pro Trp Glu
465   470   475   480

His Cys Ile Asp Arg Tyr Pro Val Lys Ile Asp Ser Asp Ser Ala Lys
                485   490   495

Ser Glu Thr Arg Ala Gln Asn Gly Arg Ser
            500   505

<210>   25
<211>   1521
<212>   DNA
<213>   Crambe abyssinica

<400>   25
atgacgtcca ttaacgtaaa gctcctttac cattacgtca taaccaacct ttttaacctc   60

tgtttctttc cgttaacggc gatcgtcgcc gggaaagcct ctcggcttac catagacgat   120

cttcaccact tatattattc ctatctccaa cacaacgtca taaccatagc tccactcttt   180

gcctttaccg ttttcggttc gattctctac atcgtgaccc ggcccaaacc ggtttacctc   240

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gttgagtact catgctacct tccaccaacg cagtgtagat caagtatctc caaggtcatg        300

gatatatttt atcaagtaag aaaagctgat ccttttcgta acgggacatg cgatgactcg        360

tcctggcttg acttcttgag gaagattcaa gaacgttcag gtctaggcga cgaaactcac        420

ggccccgagg gactgcttca ggtccctccc cggaagactt ttgcggcggc gcgtgaagag        480

acggagcaag taatcgtcgg tgcgctgaaa aatctattcg agaacaccaa agttaaccct        540

aaagatatag gtatacttgt ggtgaactca agcatgttta atccaactcc ttcactctca        600

gcgatggtcg ttaatacttt caagctccga agtaacgtaa gaagctttaa ccttggtggc        660

atgggttgta gtgctggcgt tatagccatt gatctggcta aggacttgtt gcatgtccat        720

aaaaacacgt atgctcttgt ggtgagcaca gagaacatca cttataacat ttacgctggc        780

gataatagat ccatgatggt ttcaaactgc ttgttccgtg ttggcggggc cgctattttg        840

ctctccaaca agcctagaga tcgaagacgg tccaaatacg agctagttca cacggtccga        900

acacataccg gagctgatga caagtctttc cgatgcgtcc aacaaggaga cgatgagaac        960

ggcaaaaccg gagtgagttt gtccaaggac ataaccgagg ttgctggtcg aacggttaag       1020

aaaaacatag caacattggg tcctttgatt cttcctttaa gcgagaaact tctttttttc       1080

gttaccttca tggccaagaa actttcaaa gataaagtta agcattacta tgtcccggac       1140

ttcaagcttg ctattgacca tttttgtata catgcgggag gcagagccgt gatcgatgtg       1200

ctagagaaga atttaggcct agcaccgatc gatgtagagg catcaagatc aacgttacat       1260

agatttggta acacatcatc tagctcaata tggtatgagt tggcatacat agaggcaaaa       1320

ggaaggatga agaaaggtaa taaagtttgg cagattgctt tagggtcagg ctttaagtgt       1380

aacagtgcgg tttgggtagc tttaagcaat gtcaaggctt cgacaaatag tccttgggaa       1440

cattgcatcg atagataccc ggttaaaatt gattctgatt cagctaagtc agagactcgt       1500

gcccaaaacg gtcggtccta a                                                 1521


<210>  26
<211>  506
<212>  PRT
<213>  Arabidopsis sp.

<400>  26

Met Thr Ser Val Asn Val Lys Leu Leu Tyr Arg Tyr Val Leu Thr Asn
1               5                   10                  15


Phe Phe Asn Leu Cys Leu Phe Pro Leu Thr Ala Phe Leu Ala Gly Lys
```

```
        20                25                30

Ala Ser Arg Leu Thr Ile Asn Asp Leu His Asn Phe Leu Ser Tyr Leu
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